# CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: *recorded in Microsoft word 6.0 - use tabs to change cells/fields (Revised 4/2002)*

| STATE | Caribbean Area | FIELD OFFICE | | DATE | |
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| **PRACTICE: 484 MULCHING** | NOTES: |
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| **RESOURCE: SOIL**<br>**RESOURCE CONCERN: EROSION** | **Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default.** |
| **RESOURCE INDICATORS** | **PHYSICAL EFFECTS** |
| SHEET AND RILL | Moderate to significant decrease because of increased surface cover |
| WIND | Moderate to significant decreased because of increased surface cover |
| EPHEMERAL GULLY | Light to moderate decreased because of increased surface cover |
| CLASSIC GULLY | N/A Because of reduced runoff |
| STREAMBANK | Moderate reduction |
| IRRIGATION INDUCED | Moderate because of increased surface cover |
| SOIL MASS MOVEMENT | Insignificant because of increased infiltration |
| ROADBANK/CONSTRUCTION | Moderate to significant because of increased surface cover |
| OTHER | |
| RESOURCE CONCERN: **SOIL CONDITION** | |
| SOIL TILTH | Slight to moderate decreases because of surface protection, increased infiltration, increased organic material and increased biological activity. |
| SOIL COMPACTION | Slight to moderate decreases because of surface protection, increases infiltration, increased organic material and increased biological activity. |
| SOIL CONTAMINATION | |
| • SALTS | Slight to moderate decrease because of reduced evaporation. |
| • ORGANICS | N/A |
| FERTILIZERS | N/A |
| • PESTICIDES | N/A |
| • OTHER | |
| DEPOSITION/DAMAGE | |
| • ONSITE | Moderate to significant decrease because of decreased sediment yield |
| • OFFSITE | Slight to moderate decrease because of decreased sediment yield |
| DEPOSITION/SAFETY | |
| • ONSITE | Moderate to significant decrease because decreased sediment yield |
| • OFFSITE | Moderate to significant decrease because of sediment yield |
| OTHER | |
| RESOURCE: **WATER**<br>RESOURCE CONCERN: **WATER QUANTITY** | |
| SEEPS | Negligible to slight increase because of increased infiltration |
| RUNOFF/FLOODING | Slight to moderate decrease because of increased infiltration |
| EXCESS SUBSURFACE WATER | Slight to moderate increase because of increased infiltration |
| INADEQUATE OUTLETS | Slight to moderate decreases because of decreased runoff |
| WATER MGT. IRRIGATION | |
| • SURFACE | significant improvement in irrigation efficiency |

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| • SPRINKLER | Slight to moderate because of decreased water use |
| WATER MGT. NON-IRRIGATED | significant improvement in moisture use because of decreased water use |
| RESTRICTED FLOW CAPACITY (H20 convey.) | |
| • ONSITE | Slight to moderate decrease because of decreased sediment yield |
| • OFFSITE | Slight to moderate decrease because of decreased sediment yield |
| RESTRICTED STORAGE | Slight to moderate decrease because of decreased sediment yield |
| OTHER | |

| RESOURCE: **WATER**<br>RESOURCE CONCERN**: WATER QUALITY** | |
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| **RESOURCE INDICATORS** | **PHYSICAL EFFECTS** |
| GROUNDWATER CONTAMINANTS | |
| • PESTICIDES | Slight to moderate decrease because of less herbicide use. Negligible slight increase because of increased infiltration |
| • NUTRIENTS AND ORGANICS | Negligible to slight increase because of increased infiltration |
| • SALINITY | Negligible to slight increase because of increased infiltration |
| • HEAVY METALS | Negligible to slight increase because of increased infiltration |
| • PATHOGENS | Negligible to slight increase because of increased infiltration |
| • OTHER | |
| SURFACE WATER CONTAMINANTS | |
| • PESTICIDES | Moderate to significant decrease because of decreased runoff and erosion |
| • NUTRIENTS AND ORGANICS | Moderate to significant decrease because of decreased runoff and erosion |
| • SUSPENDED SEDIMENTS | Moderate to significant decrease because of decreased runoff and erosion |
| • LOW DISSOLVED OXYGEN | Moderate to significant decrease because of decreased runoff and erosion |
| • SALINITY | Moderate to significant decrease because of decreased runoff and erosion |
| • HEAVY METALS | Moderate to significant decrease because of decreased runoff and erosion |
| • WATER TEMPERATURE | N/A |
| • PATHOGENS | Negligible to slight decrease because of decreased runoff and erosion |
| AQUATIC HABITAT SUITABILITY | Slight to moderate decrease because of decreased sediment yield |
| OTHER | |
| RESOURCE: **AIR**<br>RESOURCE CONCERN: **AIR QUALITY** | |
| AIRBORNE SEDIMENT AND SMOKE PARTICLES | |
| • ONSITE SAFETY | Moderate to significant decrease because of increased surface cover |
| • OFFSITE SAFETY | Slight to moderate decrease because of increased surface cover |
| • ONSITE STRUCT. PROBLEMS | Moderate to significant decrease because of increased surface cover |
| • OFFSITE STRUCT. PROBLEMS | Slight to moderate decrease because of increased surface cover |
| • ONSITE HEALTH | Moderate to significant decrease because of increased surface cover |
| • OFFSITE HEALTH | Slight to moderate decrease because of increased surface cover |

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| AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS | Moderate to significant decrease because of increased surface cover |
| AIRBORNE CHEMICAL DRIFT | N/A |
| AIRBORNE ODORS | N/A |
| FUNGI, MOLDS, AND POLLEN | Negligible to slight increase because of organic mulches |
| OTHER | |
| RESOURCE CONCERN: **AIR CONDITION** | |
| AIR TEMPERATURE | Slight to moderate decrease because of surface cover |
| AIR MOVEMENT (windbreak effect) | N/A |
| HUMIDITY | N/A |
| OTHER | |

| RESOURCE: **PLANT**<br>RESOURCE CONCERN: **SUITABILITY** | |
|---|---|
| **RESOURCE INDICATORS** | **PHYSICAL EFFECTS** |
| SITE ADAPTATION | Slight to moderate decrease because of improved site conditions |
| PLANT USE | N/A |
| OTHER | |
| RESOURCE CONCERN: **CONDITION** | |
| PRODUCTIVITY | Slight to moderate decrease because of improved site conditions |
| HEALTH, VIGOR, SURVIVAL | Slight to moderate decrease because of improved site conditions |
| OTHER | |
| RESOURCE CONCERN: **MANAGEMENT** | |
| ESTAB., GROWTH, HARVEST | Slight to moderate decrease because of improved site conditions |
| NUTRIENT MANAGEMENT | Slight to moderate decrease because of increased infiltration and water use |
| PESTS | Negligible to slight decrease because of return of weed competition |
| THREAT/ENDANGERED PLANTS | N/A |
| OTHER | |
| RESOURCE: **ANIMAL**<br>RESOURCE CONCERN: **HABITAT** | |
| FOOD | N/A |
| COVER/SHELTER | N/A |
| WATER (QUANTITY & QUALITY) | Negligible to moderate decrease because of reduced sediment yield |
| OTHER | |
| RESOURCE CONCERN: **MANAGEMENT** | |
| POPULATION BALANCE | N/A |
| THREAT/ENDANGERED ANIMALS | N/A |
| HEALTH | N/A |
| OTHER | |
| RESOURCE: **HUMAN**<br>RESOURCE CONCERNS**: ECONOMIC CONSIDERATIONS** | |
| PLAN / COST EFFECTIVENESS | N/A |
| CLIENT FINANCIAL CONDITION | N/A |
| MARKETS FOR PRODUCTS | N/A |
| AVAILABLE LABOR | N/A |

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| AVAILABLE EQUIPMENT | N/A |
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| RESOURCE: **HUMAN**<br>RESOURCE CONCERN: **SOCIAL CONSIDERATIONS** | |
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| **RESOURCE INDICATORS** | **PHYSICAL EFFECTS** |
| PUBLIC HEALTH AND SAFETY | N/A |
| PRIVATE/PUBLIC VALUES | N/A |
| CLIENT CHARACTERISTICS | N/A |
| RISK TOLERANCE | N/A |
| TENURE | N/A |
| OTHER | |
| RESOURCE CONCERN: **CULTURAL CONSIDERATIONS** | |
| ABSENCE/PRESENCE OF CULTURAL RESOURCES | N/A |
| SIGNIFICANCE OF CULTURAL RESOURCES | N/A |
| MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS | N/A |
| OTHER | |
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